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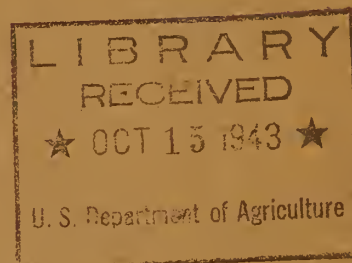
SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR OREGON

AS OF

MARCH 1, 1943

* * *



Issued March 9, 1943

by

Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and

Oregon Agricultural Experiment Station, Medford Branch
cooperating

* * * * *

Data included in this report were obtained by the agencies
listed above, in cooperation with the Oregon State
Engineer, U. S. Forest Service, National Park Service
and other Federal, State and local organizations. 1/

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WATER SUPPLY OUTLOOK

Oregon 1943 water supply outlook continues to be very good, with prospects now for adequate water supply to practically all areas and with continuing prospects for bountiful supplies in most parts.

The very rosy hue tinting last month's snow survey report has been subdued by decelerated mountain snowfall, due in turn to State-wide below-normal February precipitation. On some courses little or no snow has fallen since February 9. Nevertheless, mountain snow cover of February 1 was sufficiently great that March 1 snow cover continues above average in most parts of the State. Should March snowfall be deficient, the outlook by April 1 will be less bright than at present, but should hold approximately as outlined in the box above.

Snow density is greater than usual for this season of year. High level snow in places is now approaching 50 per cent density and is conditioned to begin immediate water delivery with melting temperatures.

Total water stored in all reservoirs is about 3 per cent less than last year. This is because several reservoirs continue by-passing water to provide space for anticipated inflow, rather than to lack of reservoir inflow. However, the number of reservoirs half or better full continues greater than in any recent year.

Precipitation accumulated in Oregon valleys during February was generally much below normal, but the total accumulation since October 1 is well above normal.

The following water supply outlook for various Oregon areas is tentative only and not necessarily conclusive. Final 1943 snow surveys will be made the latter part of March.

Willamette Valley: An unusually abundant snow pack extends to low elevations.

Northcentral Oregon: Outlook good with mountain snow above normal.

Umatilla-Walla Walla Basin: Prospects good with mountain snow 150 to 225 per cent of last year at comparable date and nearly 150 per cent average.

Northeastern Oregon: Prospects excellent with mountain snow cover on the Grande Ronde-Powder drainage basin 160 per cent average.

Eastern Oregon: Abundant water supply and full reservoirs in prospect. Discharge of Middle Fork John Day River for six months ending September 30, now expected to be 135 per cent average.

Harney Basin: Prospects excellent with above-normal mountain snow and very wet watershed, especially on the northern feeders.

Central Oregon: More water now in the three principal reservoirs than at any comparable date since 1939. Few snow courses measured this month indicate snow cover 164 per cent of last year and about twice average. April-September, inclusive, Ochoco Reservoir inflow expected to be 26-30,000 acre feet, equivalent to 180-207 per cent average.

Southcentral Oregon: Water supply prospects now seem even better than last year, but it should be remembered that in 1942 unusually heavy early summer rains turned good prospects into a bumper water year.

Klamath Basin: The heaviest run-off in years is in prospect, with more than ample 1943 water supplies.

Southern Oregon: Water supply prospects continue more varied than elsewhere in the State, ranging from excellent to fair minus. In general, the upper headwaters of Rogue River support a better than average snow crop; the Applegate has an average snow crop, but streams entering Rogue River from the south, below its confluence with the Applegate, and streams entering Rogue River from the north below Trail, cannot depend much on snow pack to sustain their flow during the summer months.

The following preliminary forecasts are based on current conditions:

Affecting Medford and Rogue River Irrigation Districts:

Water available* for delivery to North Fork Little Butte Creek below Fish Lake Reservoir (including water now stored in Fish Lake, but not including water transported from Fourmile Lake basin) is expected to be not less than 23,000 acre feet, or 145 per cent average (based on 26 years, 1916-1941, incl.) for the 6 months, April-September.

Water available for delivery to the head of the Cascade Canal below Fourmile Lake Reservoir (including water now stored in Fourmile Lake Reservoir, and less estimated losses) is expected to be not less than 12,400 acre feet, or 110 per cent average (based on 17-year average for years of record from 1924-1941, incl.) for the 6 months, April-September.

Affecting Talent Irrigation District:

Water available for delivery from Hyatt Reservoir to Keene Creek Canal (including water now stored in Hyatt Reservoir, and less estimated losses) is expected to be not less than 13,000 acre feet, or 140 per cent average (based on 18 years, 1924-1941, incl.) for the 6 months, April-September.

Affecting Grants Pass Irrigation District and
The California Oregon Power Company:

Discharge of North Fork Rogue River at Station 722 above Prospect is expected to be not less than 395,000 acre feet for the 6 months, April-September, inclusive. This is equivalent to 150 per cent average (based on 23 years of record in the period 1908-1942, incl.).

* No inference that "water available" will be "water used".

Postscript: The remeasurement of Billie Creek Divide Snow Course, referred to on pp. 12 and 13, is as follows: March 8, depth 64.9 inches; water 31.9 inches. February 25 water content value is wrong.

COMPARISON OF SNOW COVER AS OF MARCH FIRST WITH THAT OF PREVIOUS YEARS

Snow-stored water now present above 5,000 feet:

Snow-stored water now present from 2,000-5,000 feet:

As per cent of that present one month ago	-- 112
As per cent of that present one year ago	-- 148
As per cent of that present two years ago	-- 153
As per cent of average	-- 147

As per cent of that present one month ago	--	102
As per cent of that present one year ago	--	194
As per cent of that present two years ago	--	335
As per cent of average	--	183

Snow water content on 85 per cent of all measured courses is greater than at this time in 1942, and in 89 per cent of the comparisons, is greater than on about March 1 of 1941. Snow water content on 85 per cent of all measured courses is greater than average, and is the greatest of record on nearly one-third.

Given below is a tabulation showing inches snow-stored water for the March 1 record period on thirteen scattered snow courses. March 1 snow measurements were taken on few courses prior to 1936, so to this extent the snow pack of March 1, 1943, is superior or the greatest of record only for a relatively short record period.

Snow Water Content (Inches) as of About March 1

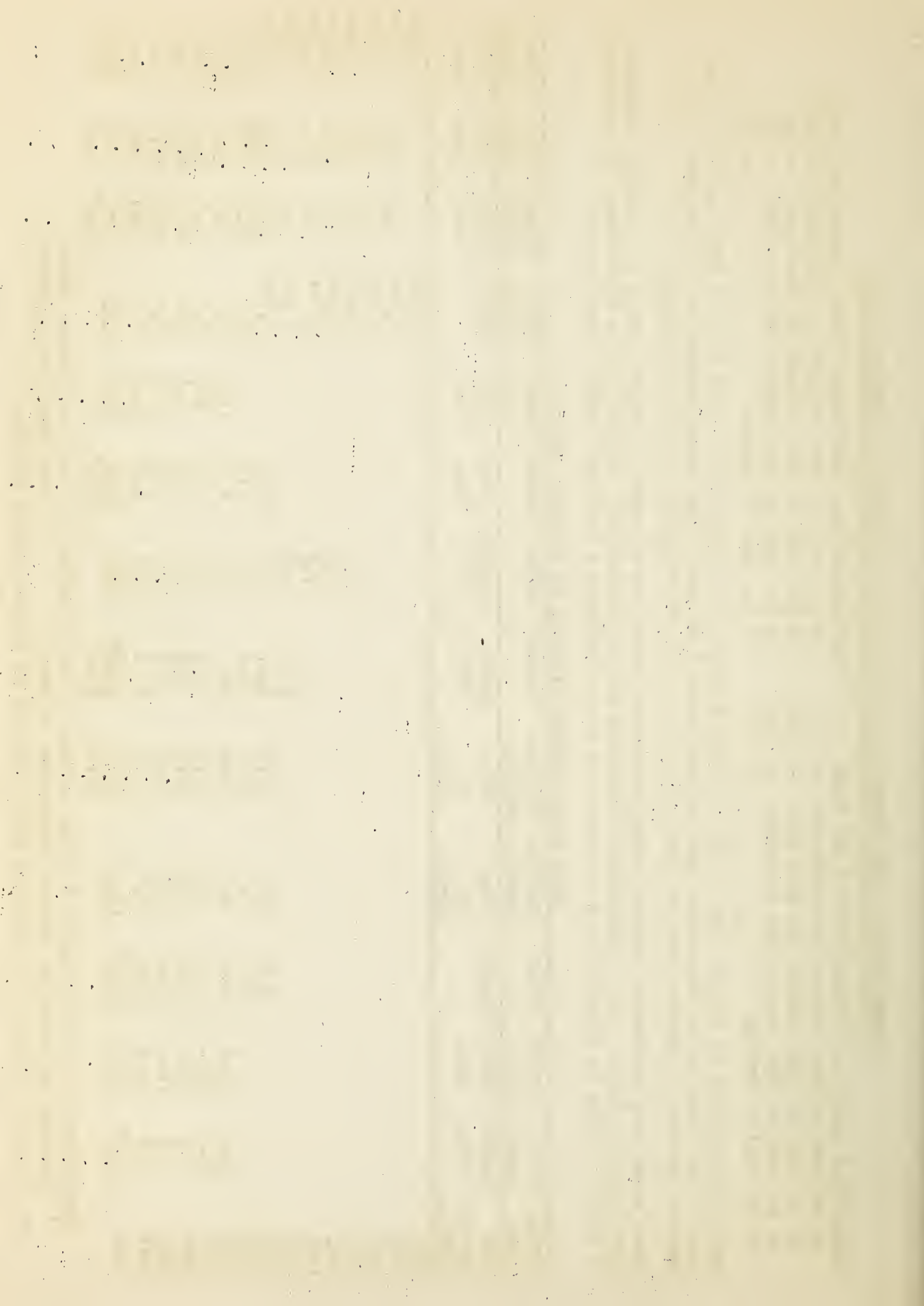
Stream	Clack-	Grande	Powder	John Day--	John Day--	Crooked	Owyhee	Harney	Summer	Klam.--	Klam.--	Rogue
Basin	amas	Ronde		Burnt	Malheur				Lake	Desch.	Rogue	Umpqua
Snow	Peavine	Moss	Bourne	Blue	Blue	Ochoco	Granite	Izee	Summer	Chemult	Billie	Diam.
Course	Ridge	Sprg.		Mt.	Mt.	Mdws.	Peak	Sum.	Rim		Creek	Lake
Year	Summit			Sprgs.								
1929										5.8**		12.6**
1930										1.4**		5.0**
1931										7.8**	6.4	7.8**
1932							16.5			11.9**	12.8	15.4**
1933							7.4			12.0**	32.2	27.0**
1934						0	7.2			0 **	30.9	5.4**
1935						N.R.	11.8			7.6**	N.R.	8.6**
1936			16.0	10.5	18.6	N.R.	13.5	11.0		12.5**	36.3	17.6**
1937			10.2	9.3	15.3	13.6	7.9	8.3		11.0	27.4	21.2
1938	13.0	19.6	14.1	6.7	19.0	10.0	13.5	6.7	15.2	12.5	18.4	18.2
1939	19.2	N.R.	12.9	9.2	13.9	9.6	12.8	9.1	9.2	8.7	27.8	18.2
1940	7.6	18.0	13.0	5.4	10.3	8.0	15.0	5.2	12.6	8.0	10.8	9.6
1941	4.3	16.9	10.6	8.1	14.0	9.8	15.7	7.7	13.6	8.4	13.5	12.8
1942	8.9	13.9	12.9	9.3	12.8	11.6	13.7	8.8	13.0	10.2	18.0	14.6
1943	28.2*	32.1*	24.6*	13.4*	23.0	14.8a	18.9*	12.8	20.7*	21.4*	31.9	32.9
					23.4*	15.4*		13.5*			38.2*	36.0*

Underscored is greatest March 1 water content of record period for each snow course shown.

* Greatest of record for course, regardless of month.

From COPCO Water Station.

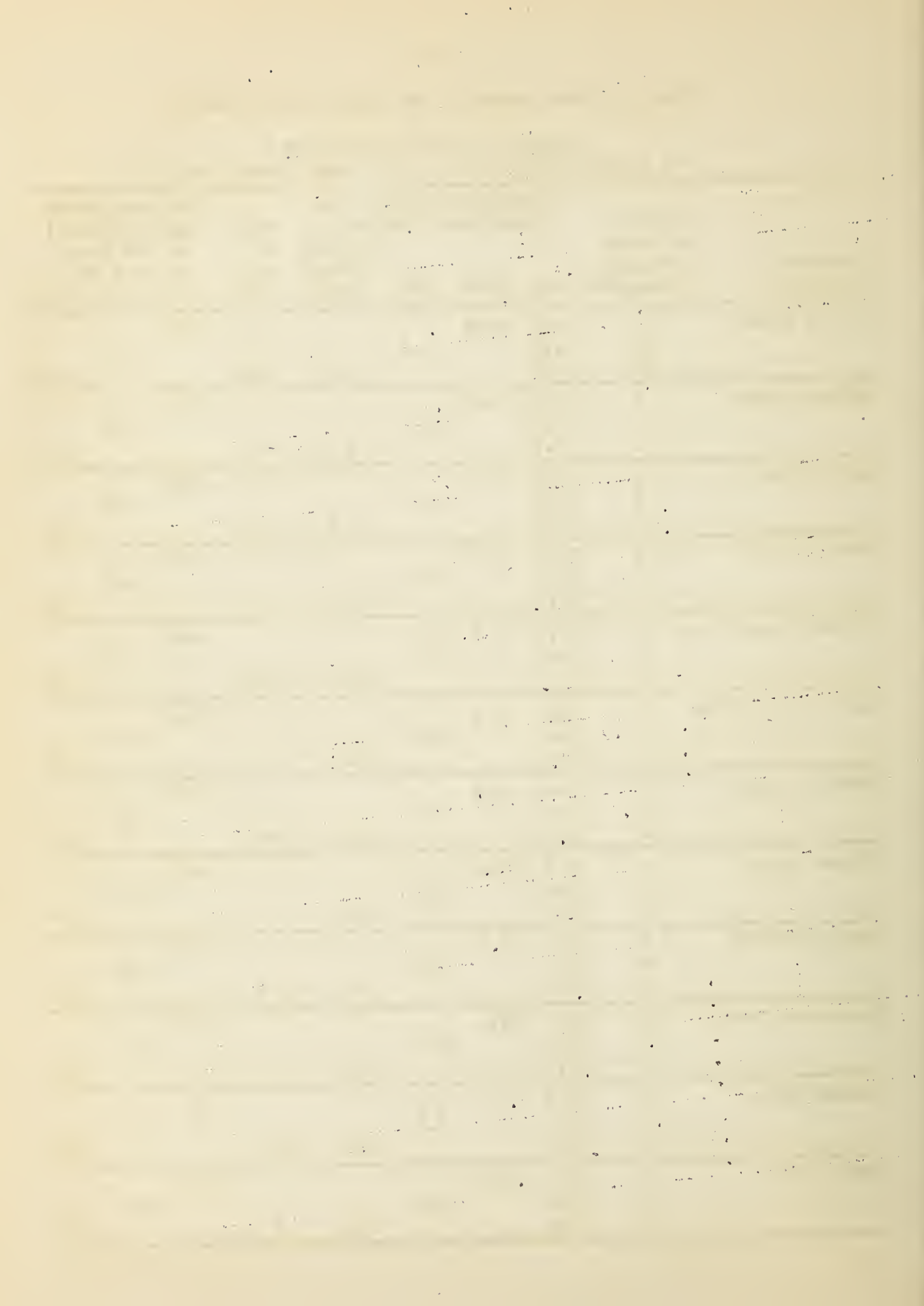
a Meas. of February 19, 1943 was 15.4, greatest of 15-year record period.



STATUS OF SNOW COVER AS OF MARCH FIRST (Cont'd.)

Summary of Snow Survey Data
by Tributary Drainages as of About March First

Tributary Drainage	Number of snow courses averaged	Average Water Depth in Snow Cover (Inches)				Yrs. of rec- ord	1943 Snow Water Depth (Inches) as Per Cent of that in		
		1943	1942	1941	Avg.past yrs.of record		1942	1941	Avg.
Owyhee River	11	13.0	10.9				119		
	10	11.9		9.2				129	
	11	13.0			9.5	3-11			137
Malheur River	3	12.4	9.2				135		
	5	13.7		10.0				137	
	5	13.7			9.3	4-7			147
Burnt River	2	12.6	10.5				120		
	2	12.6		9.7				130	
	2	12.6			8.8	4-7			143
Powder River	5	20.3	11.7				174		
	5	20.3		12.7				160	
	5	20.3			12.7	4-7			160
Grande Ronde River	5	24.2	11.5				210		
	6	20.7		11.0				188	
	6	20.7			13.6	3-6			152
Walla Walla River	1	31.9	14.1				226		
	1	31.9		15.6				204	
	1	31.9			20.6	4			155
Umatilla River	4	15.4	9.9				156		
	4	15.4		7.6				203	
	4	15.4			12.0	4-6			128
Willow Creek	1	10.6	11.2				95		
	1	10.6		9.3				114	
	1	10.6			10.2	2			104
John Day River	8	13.9	9.8				142		
	9	12.8		8.6				149	
	9	12.8			9.3	2-7			138
Deschutes River	1	52.7	28.4				186		
	1	52.7		21.4				246	
	1	52.7			24.9	2			212
Crooked River	2	12.2	9.4				130		
	2	12.2		6.8				179	
	2	12.2			7.6	5-7			160
Sandy River	2	55.0	23.0				239		
	2	55.0		16.2				340	
	2	55.0			24.8	5			222



Tributary Drainage	Number of snow courses averaged	Average Water Depth in Snow Cover (Inches)				Yrs. of rec- ord	1943 Snow Water Depth (Inches) as Per Cent of that in		
		1943	1942	1941	Avg. past yrs. of record		1942	1941	Avg.
Clackamas River	1	28.2	8.9				317		
	2	26.8		3.6				744	
	2	26.8			9.4	4-5			285
Willamette River	4	34.7	15.6				222		
	4	34.7		9.8				354	
	4	34.7			14.0	2-4			248
Chewaucan River	1	8.6	6.4				134		
	1	8.6		7.9				109	
	1	8.6			6.4	4			134
Harney Basin	6	8.8	7.7				114		
	6	8.8		6.8				129	
	6	8.8			6.6	3-7			133
Silver Lake Basin	1	7.8	3.7				211		
	0	-		-				-	
	1	7.8			3.2	3			244
Guano Lake	1	7.7	11.1				69		
	1	7.7		7.3				105	
	1	7.7			8.0	3			96
Umpqua River	4	16.8	7.0				240		
	4	16.8		6.5				258	
	4	16.8			9.7	4-6			173
Upper Rogue River	10	13.6	9.9				137		
	10	13.6		7.6				179	
	12	18.9			17.1	1-11			110
Applegate River	3	21.8	18.8				116		
	3	21.8		19.4				112	
	3	21.8			19.3	1-5			113
Illinois River	2	12.4	11.8				105		
	1	1.1		3.7				30	
	2	12.4			13.3	1-4			93
Klamath Lake Basin	18*	13.6	8.6				158		
	18*	13.6		8.4				162	
	20*	16.8			12.4	1-16			135
Goose Lake Basin	2*	9.0	8.0				112		
	2*	9.0		8.5				106	
	2*	9.0			6.3	4-12			143

* Including Copco water measurement stations.

Postscript: The March 8 remeasurement of Billie Creek Divide Course, received since stenciling of this page, increases slightly the percentage values shown above for Upper Rogue River and Klamath Lake Basin.

STATUS OF RESERVOIR STORAGE AS OF MARCH FIRST

In the following tabulation, water storage in acre feet in important Oregon reservoirs as of about March 1, 1943, is compared with storage as of approximately the same date in 1942, 1941, 1940 and 1939.

Storage Reservoir	Stream Basin	Capacity Acre Ft.	Acre Feet in Storage				
			About 3-1-43	About 3-1-42	About 3-1-41	About 3-1-40	About 3-1-39
Agency Valley	Malheur	60,000	19,080 ^c	49,250	50,910	50,120	44,440
Antelope	Owyhee	36,550	16,425	10,200	15,000	Empty	3,900
Clear Lake	Lost River	440,240 ^b	260,680 ^{b,c}	281,540 ^b	245,200 ^b	241,480 ^b	230,160 ^b
Cold Springs	Umatilla	50,000	36,500 ^g	38,500	46,200	29,800	40,100
Cottage Grove	Willamette	30,000 ^b	8,100 ^b	-	-	-	-
Cottonwood	Goose Lake	4,160	0 ^c	No report	28	2,525	130
Crane Prairie	Deschutes	50,000	38,780	24,014	23,530	32,120 ^a	29,410 ^a
Crescent Lake	Deschutes	80,000	30,520	21,980	22,700 ^a	32,020 ^a	57,110 ^a
Drew Creek	Goose Lake	62,500	33,000 ^c	45,000	30,900	41,780	33,100
Emigrant Gap	Rogue	8,200	7,136	Full	7,926	Full	3,359 ^a
Fern Ridge	Willamette	95,000 ^b	49,100 ^b	-	-	-	-
Fish Lake	Rogue	7,720	5,129	3,598	3,575	4,376	6,139
Fourmile Lake	Klamath ^d	14,000	4,087	3,294	2,988	7,826	10,460 ^a
Gerber	Klamath	94,000 ^b	21,740 ^{b,c}	42,160 ^{b,c}	50,880 ^b	59,220 ^b	36,370 ^b
Hyatt Prairie	Klamath ^d	15,000	9,872	7,080	3,055	4,431	10,870 ^a
McKay	Umatilla	74,000	62,050	66,550	29,100	32,840	30,110
Ochoco	Crooked	46,000	35,420 ^c	15,970	5,780	4,060	21,900
Owyhee	Owyhee	715,000 ^b	606,780 ^{b,c}	552,620 ^b	594,570 ^b	464,170 ^b	534,020 ^b
Thief Valley	Powder	17,400	Full	14,860	Full ^a	11,912	11,045
Unity	Burnt	25,260	7,640 ^c	11,680	12,610	11,980	11,750
Upper Klamath	Klamath	524,800 ^b	353,800 ^{b,c}	422,900 ^b	327,700 ^b	383,500 ^b	405,400 ^b
Wallowa Lake	Wallowa	40,920	25,320	32,770	18,070	11,710	36,960
Warm Springs	Malheur	190,000	150,600	150,600	132,900	105,500	142,200
Wickiup	Deschutes	180,000 ^f	5,060	-	-	-	-
Willow Creek	Malheur	26,000	10,780	No report	4,800	600 ^e	4,000 ^a

a - Estimated

b - Available for use

c - Water being by-passed, or water level being lowered, to provide space for anticipated inflow.

d - By ditch to Rogue River side

e - Approximate

f - To store not more than 22,000 acre feet in 1943.

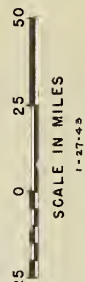
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IMPORTANT OREGON RESERVOIRS



RESERVOIR NAME

NUMBER



Number	Name	Elev.	Number	Name	Elev.	Number	Name	Elev.	Number	Name	Elev.
UPPER COLUMBIA DRAINAGE											
Lower Snake in Oregon											
OWHEE RIVER											
Nev.1	Big Bend	6800	212	WALLA WALLA RIVER	5070	831	Annie Spring	6018	911A	Camas Creek	5720
Nev.2	Buckskin, Lower	6800		folgate		722	Billie Creek Divide	6000		GUANO LAKE	
Nev.3	Buckskin, Upper	8200		UMATILLA RIVER		834	Chemult No. 1	4760	942	Silver Creek	4900
952	Fish Creek	7900				Calif.	Crowder Flat	5200		CHEWAUCAN RIVER	
Nev.5	Fry Canyon	6800				723	Hyatt Prairie Reservoir	4900			
Nev.6	Gold Creek Ranger Sta.	6600	222	Emigrant Springs	3925	835	Lake of the Woods	4960	922	Mail Creek	6200
Nev.7	Granite Peak	8600	223	Lucky Strike	5050	811	Quartz Mountain	5320			
Nev.8	Jack Creek, Lower	7000	221	Meacham	4300	7211	Seven Lakes No. 1	6800		HARNEY BASIN	
Nev.9	Jack Creek, Upper	7800	212	Tollgate	5070	7212	Seven Lakes No. 2	6200			
Nev.10	Martin Creek	7000		WILLON CREEK		837	Strawberry	5600			
Nev.11	Rodeo Flat	7000	241	Arbuckle Mountain	5400	841	Summer Rim	7200	973	Deer Creek	6670
Ida.12	Silver City	6400		JOHN DAY RIVER		836	Sun Mountain	5350	952	Fish Creek	7900
Ida.13	South Mountain	5100				842	Taylor Butte	5100	971	Hart Mountain	6350
Nev.15	Taylor Canyon	5200	241	Arbuckle Mountain	5400	911A	GOOSE LAKE BASIN		961A	Idylwild Park	5200
MALHEUR RIVER											
133	Blue Mountain Spring	5900	246A	Beech Creek Summit	4800	811	Camas Creek	5720	134	Izee Summit	5100
137	Crane Prairie	5375	133	Blue Mountain Spring	5900	837	Strawberry	5600	951	Silvies	6900
136	Lake Creek	5120	141	Blue Mountain Summit	5098				247	Starr Ridge	5156
134	Rock Spring	5100	244	Dixie Springs	6650					WARNER LAKE	
135	Stinking Water	4800	249	Gold Center	5340				911A	Camas Creek	5720
BURNT RIVER											
141	Blue Mountain Summit	5098	245	Izee Summit	5293					GUANO LAKE	
156	Dooley Mountain	5430	248	Olive Lake	6000				Nev.	Bald Mountain	6720
142	Tipton	5100	247	Schoonarm	4775				972	Guano Creek	6480
POWDER RIVER											
155	Anthony Lake	7125		Starr Ridge	5156					WEST COAST DRAINAGE	
154	Bourne	5800	326	Caldwell Ranch	4400						
156	Dooley Mountain	5430	321	Cascade Summit	4860					UMPQUA RIVER	
151B	Ellertson Meadows	5400	327	Charlton Lake	5750					Champion	4500
249	Gold Center	5340	361	Clear Lake	3500					Diamond Lake	5315
184	Summit Springs	6000	325	Crescent Lake	4760					Goollaway Gap	3000
185	Taylor Green	5740	323	Derr Pass	5670					Goollaway Mountain	3730
PINE CREEK											
161	Schneider Meadows	5400	351	Hogg Pass	4755	1	Beatty	4300		Goollaway Mountain	3730
			344	Marks Creek	4540	2	Chemult	4761		Grayback Peak	6000
			342A	New Dutchman Flat	6400	3	Chiloquin	4187		Hyatt Prairie Reservoir	4900
			341	Ochocho Meadows	5200	4	Crystal	4200		Little Red Mountain	6500
			342	Tamarack	4800	5	Fort Klamath	4150		Seragg Mountain	6200
			331	Three Creeks Meadows	5600	6	Kirk	4533		Seven Lakes No. 1	6800
						7	Lake of the Woods	4960		Seven Lakes No. 2	6200
						8	Pelican	4200		Silver Burn	3720
						9	Quartz Mountain	5504		Siskiyou Summit	4630
						10	Richardson Ranch	4800		South Fork Canal	3500
						11	Rocky Point	4150		Wagner Butte	6900
						12	Yansey	4600		Whaleback	5140
	</										

STATUS OF VALLEY PRECIPITATION AS OF OCTOBER 1 TO DATE

- 7 -

Month	Oct.		Nov.		Dec.		Jan.		Feb.		Period	
Section	P	D	P	D	P	D	P	D	P	D	P	D
S. E.	0.35	-0.34	2.56	+1.42	1.91	+0.88	1.1	0.0	0.3	-0.7	6.22	+1.26
S. C.	0.37	-0.63	4.38	+2.46	3.78	+1.40	4.6	+2.6	1.3	-0.2	14.43	+5.63
N. C.	0.54	-0.22	4.41	+2.83	3.98	+2.05	3.6	+1.8	0.2	-1.0	12.73	+5.46
Col. Riv.	0.79	-0.22	3.58	+1.85	3.03	+1.43	1.6	0.0	0.9	-0.5	9.90	+2.56
Wal. Mts.	1.30	-0.19	3.50	+1.57	2.87	+0.57	1.9	+0.5	0.9	-0.5	10.47	+1.95
Blue Mts.	1.06	-0.37	3.31	+1.33	3.36	+1.45	3.1	+1.0	1.6	-0.3	12.43	+3.11
Southern	1.12	-0.77	8.98	+5.22	6.82	+3.42	8.2	+4.4	1.5	-1.7	26.62	+10.57
Willamette	3.22	-0.63	17.53	+9.60	14.62	+6.55	8.1	+0.3	4.6	-1.5	48.07	+14.32
Area	1.09	-0.42	6.03	+3.28	5.05	+2.29	4.0	+1.3	1.4	-0.8	17.61	+5.61

P - Inches precipitation.

D - Inches departure from normal.

S. E. - Southeastern Oregon range lands, Harney and Malheur Counties.

S. C. - Southcentral Oregon range lands, Lake County and Klamath County, except the Cascade Mountains.

N. C. - Northcentral Oregon wheat and range lands, Crook, Deschutes, Jefferson, Wheeler and part of Grant Counties.

Col. Riv. - Columbia River area, wheat and range lands, Gilliam, Morrow, Sherman, Wasco and part of Umatilla Counties.

Wal. Mts. - Wallowa Mountain area, forest and range lands, Wallowa and part of Baker County.

Blue Mts. - The Blue Mountain forest and range area, Union and parts of Baker, Grant and Umatilla Counties.

Southern - Southern Oregon irrigated section, Jackson and Josephine Counties.

Willamette - Parts of Polk, Benton, Yamhill, Washington, Lane and all of Linn, Marion, Clackamas and Multnomah Counties.

Note: Data for the last two months shown above are preliminary only, as they are based on a few stations only. Data for earlier months have been corrected to include all the stations in climatological data for the area.

TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS									
(Primary & Secondary & Snow Courses)	Oregon Number	Sec.	Twp.	Range	Elev.	About March 1, 1943		Average Water Depth				(Inches)	
						Avg.	Snow	One	Month	One	Year	Two	Avg. for
						Depth	Depth	Ago	Ago	Ago	Ago	Ago	past
						(In.)	(In.)	(2-1-43)	(3-1-42)	(3-1-41)	yr.	of	
						Date	(In.)	(In.)	(2-1-43)	(3-1-42)	(3-1-41)	record	ord

U P P E R C O L U M B I A D R A I N A G E
L O W E R S N A K E I N O R E G O N

OWYHEE RIVER

Granite Peak	Nev.	27	44N	39E	8600	3-2	49.0	18.9	-	13.7	15.7	12.3	11
Upper Buckskin	Nev.	14	45N	39E	8200	2-28	36.4	14.9	-	11.2	13.4	9.4	11
Mary's River	Nev.	4	44N	58E	8000	2-23	70.2	24.0*	-	17.7	-	17.2	6
Midas	Nev.	18	39N	46E	7200	3-6	15.4	5.2	-	14.2	7.3	8.9	3
Martin Creek	Nev.	24	44N	39E	7000	3-1	26.6	9.9	-	8.5	7.6	7.2	11
Big Bend	Nev.	30	45N	56E	6800	2-23	43.3	16.2*	15.2	10.2	9.9	9.4	11
Lower Buckskin	Nev.	25	45N	39E	6800	2-28	26.0	9.4	-	7.6	8.4	8.1	11
Gold Creek Ranger Sta.	Nev.	32	45N	56E	6600	2-23	28.7	10.9*	-	8.1	6.2	6.7	11
Silver City	Idaho	6	5S	3W	6400	3-3	37.8	15.7	15.6	13.2	9.9	11.3	6
South Mountain No.2	Idaho	35	7S	5W	6340	2-27	36.6	16.0	14.8	12.1	10.9	10.9	3
Tremewan Ranch	Nev.	4	29N	55E	5600	2-23	7.6	2.3*	-	4.1	3.2	3.2	11

Note: Some Owyhee courses missing as snow surveyors have not returned from trips.

MALHEUR RIVER

Blue Mountain Spring	133	21	15S	35E	5900	2-23	63.5	23.0	23.0	12.8	14.0	14.8	7
Crane Prairie	137	24	16S	34E	5375	2-25	41.4	14.8	-	-	9.5	8.6	4
Lake Creek	136	10	16S	33½E	5120	2-24	47.2	16.4	-	-	12.8	10.5	4
Rock Spring	134	23	18S	32E	5100	2-28	29.0	9.8	8.3	8.2	7.3	7.2	7
Stinking Water	135	33	21S	34E	4800	2-24	16.2	4.4	4.9	6.6	6.5	5.2	5

* Telegraphic; subject to minor revision.

Postscript: Schoolmarm course reported on pp. 9 & 10 was measured March 8: Avg. depth 12.2, Avg. water 3.5

TRIBUTARY BASINS

LOCATION

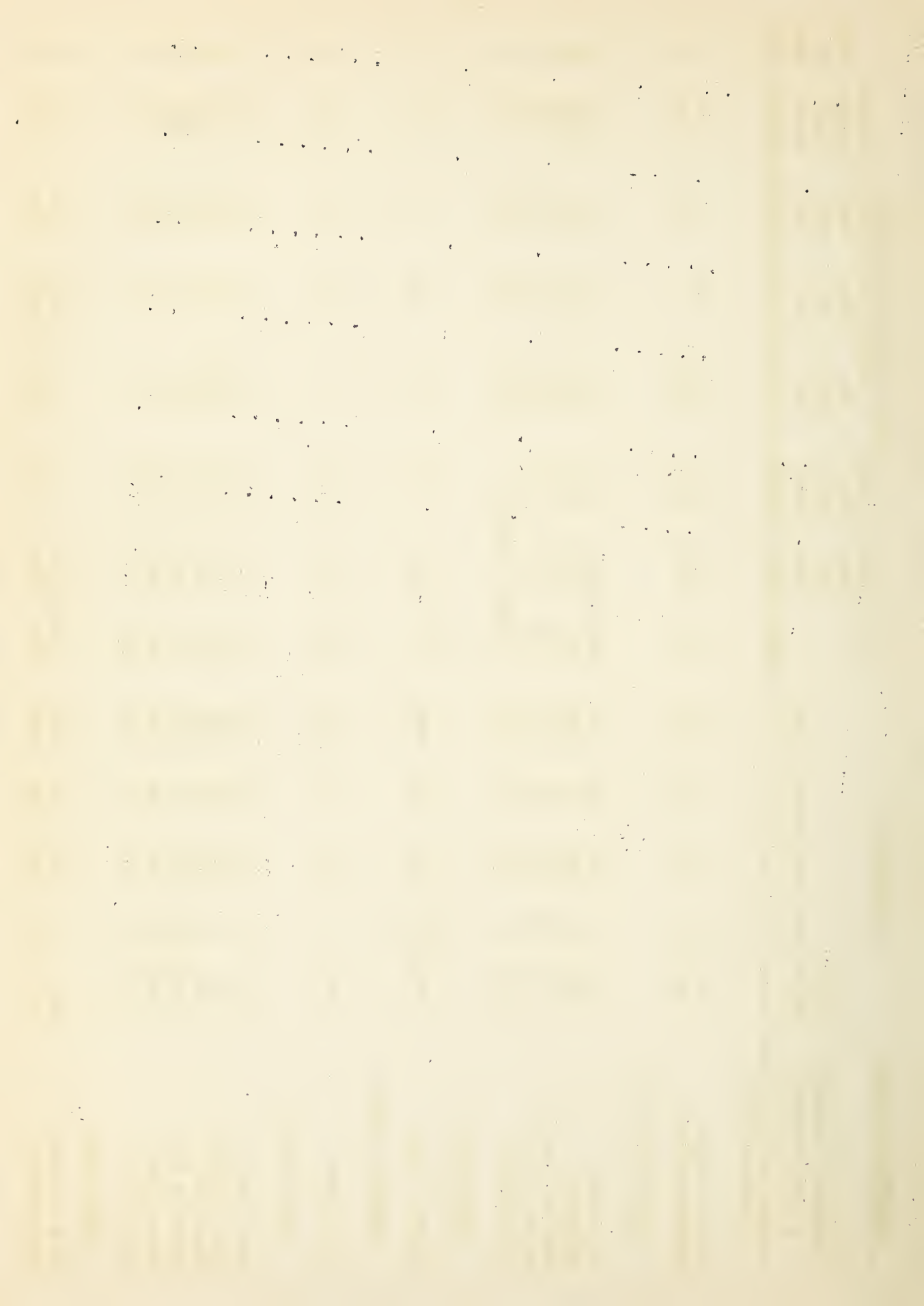
SNOW COVER MEASUREMENTS

(Primary & Secondary & Snow Courses)	Oregon Number	Sec.	Twp.	Range	Elev.	Date	About March 1, 1943					Average Water Depth (Inches)					Yrs. of rec- ord
							Avg. Snow		Depth (In.)	Avg. Water		One Month Ago	One Year Ago	Two Years Ago	Avg. for past yrs. of rec- ord		
							Depth (In.)	Water		Depth (In.)	Water						
							(In.)	(In.)		(2-1-43)	(3-1-42)					(3-1-41)	
BURNT RIVER																	
Dooley Mountain	156	32	11S	40E	5430	3-2	36.1	11.8	12.0	11.7	11.3	9.1	4				
Blue Mountain Summit	141	6	12S	36E	5098	3-1	38.0	13.4	12.4	9.3	8.1	8.4	7				
POWDER RIVER																	
Anthony Lake	155	18	7S	37E	7125	3-1	78.9	32.7	32.2	14.4	20.2	18.8	4				
Bourne	154	33	8S	37E	5800	2-28	57.5	24.6	19.6**	12.9	10.6	12.8	7				
Dooley Mountain	156	32	11S	40E	5430	3-2	36.1	11.8	12.0	11.7	11.3	9.1	4				
Eilertson Meadows	151B	18	8S	38E	5400	2-28	45.7	17.8	17.0	9.1	10.6	11.9	5				
Gold Center	249	21	9S	36E	5340	3-2	41.0	14.4	14.5	10.4	11.0	11.1	4				
GRANDE RONDE RIVER																	
Anthony Lake	155	18	7S	37E	7125	3-1	78.9	32.7	32.2	14.4	20.2	18.8	4				
Moss Spring	186	27	3S	41E	5860	2-27	81.4	32.1	26.0	13.9	16.9	17.1	4				
Beaver Reservoir	188	8	5S	37E	5340	2-27	42.6	13.6	11.8	7.6	6.8	12.1	4				
Tollgate	212	32	4N	38E	5070	2-27	78.1	31.9	28.8	14.1	15.6	20.6	4				
Schoolmarm	248	28	4S	34E	4775	Now being measured			--	--	2.7	4.0	3				
Meacham	221	24&25	1S	35E	4300	2-25	28.0	10.5	10.6	7.4	3.6	9.1	6				
LOWE R C O L U M B I A D R A I N A G E																	
WALLA WALLA RIVER																	
Tollgate	212	32	4N	38E	5070	2-27	78.1	31.9	28.8	14.1	15.6	20.6	4				
UMATILLA RIVER																	
Tollgate	212	32	4N	38E	5070	2-27	78.1	31.9	28.8	14.1	15.6	20.6	4				
Lucky Strike	223	28	3S	32E	5050	2-23	43.1	13.0	13.5	11.8	9.7	11.1	4				

** Partly estimated.

TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS									
(Primary & Secondary & Snow Courses)		Oregon Number Sec. Twp. Range		Elev.	Date	Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month Ago (2-1-43)	One Year Ago (3-1-42)	Two Years Ago (3-1-41)	Depth (Inches)	Yrs. past of rec- ord	
UMATILLA RIVER (Cont'd.)													
Meacham	221	24&25	1S	35E	4300	2-25	28.0	10.5	10.6	7.4	3.6	9.1	6
Emigrant Springs	222	29	1N	35E	3925	2-25	15.6	6.3	9.0	6.4	1.6	7.3	6
WILLOW CREEK													
Arbuckle Mountain	241	33	4S	29E	5400	2-24	31.1	10.6	10.6	11.2	9.3	10.2	2
JOHN DAY RIVER													
Olive Lake	245	14	9S	33½E	6000	2-28	59.6	19.3	16.9	11.7	13.3	14.8	7
Blue Mountain Springs	133	21	15S	35E	5900	2-23	63.5	23.0	23.0	12.8	14.0	14.8	7
Arbuckle Mountain	241	33	4S	29E	5400	2-24	31.1	10.6	10.6	11.2	9.3	10.2	2
Gold Center	249	21	9S	36E	5340	3-2	41.0	14.4	14.5	10.4	11.0	11.1	4
Izee Summit	964	28	16S	29E	5293	3-1	36.3	12.8	13.5	8.8	7.7	8.1	7
Starr Ridge	247B	20	15S	31E	5150	3-1	28.8	9.5	9.3	6.2	5.8	5.6	7
Blue Mountain Summit	141	6	12S	36E	5098	3-1	38.0	13.4	12.4	9.3	8.1	8.4	7
Beech Creek Summit	246A	4	12S	30E	4800	3-3	25.4	8.5	7.6	7.8	5.2	7.1	6
Schoolmarm	248	28	4S	34E	4775	Now	being measured		-	-	2.7	4.0	3
DESCHUTES RIVER													
Ochoco Meadows	341	21	13S	20E	5200	3-1	43.3	14.8	13.7	11.6	9.8	8.9	7
Hogg Pass	351	24	13S	7½E	4755	2-28	131.7	52.7	48.0	28.4	21.4	24.9	2
Marks Creek	344	25	12S	19E	4540	2-26	28.7	9.6	8.7	7.2	3.9	4.9	5
SANDY RIVER													
Phlox Point - Mt. Hood	452	6	3S	9E	5600	2-24	169.1	74.5	59.7	35.0	27.2	37.9	5
Still Creek	451	25	3S	8½E	3700	2-24	84.1	35.5	27.6	10.9	5.3	11.8	5

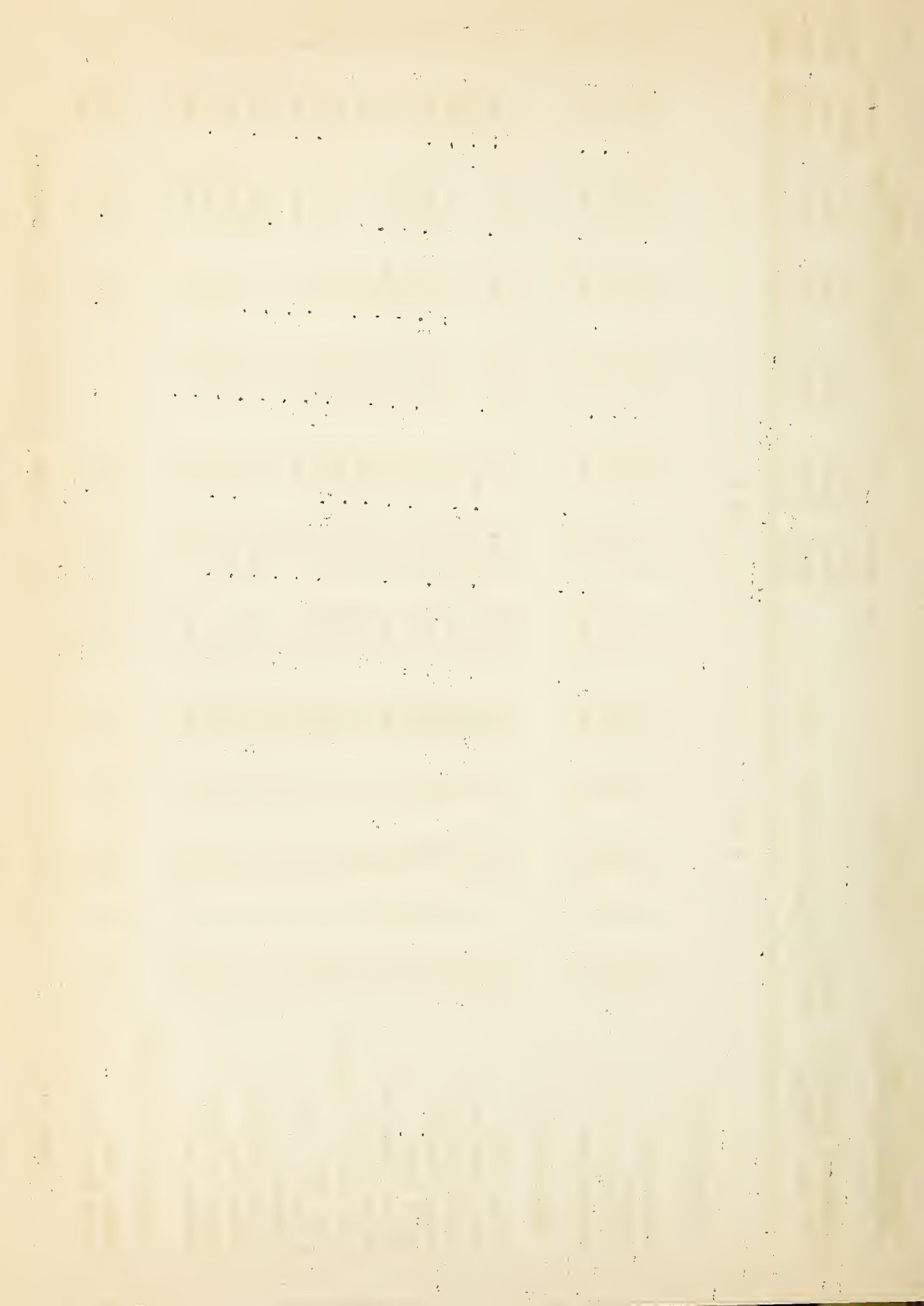
TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS									
(Primary & Secondary & Snow Courses)	Oregon Number	Sec.	Twp.	Range	Elev.	About March 1, 1943		Average Water Depth			(Inches)		Yrs. of rec- ord
						Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month Ago (2-1-43)	One Year Ago (3-1-42)	Two Years Ago (3-1-41)	Avg. for past yrs. of record		
CLACKAMAS RIVER													
Peavine Ridge	591	14&15	6S	7E	3500	3-2	75.3	28.2	25.5	8.9	4.3	10.6	5
Clackamas Lake	592	35	5S	8½E	3400	2-26	64.0	25.3	22.0	-	2.9	8.2	4
WILLAMETTE RIVER													
Hogg Pass	351	24	13S	7½E	4755	2-28	131.7	52.7	48.0	28.4	21.4	24.9	2
Champion	522	12	23S	1E	4500	3-1	70.5	30.2	30.1	11.7	13.3	17.9	4
Santiam Junction	552	14	13S	7E	3990	2-28	76.3	32.4	29.1	14.6	4.6	9.6	2
Marion Forks	553	28	11S	7E	2730	2-28	54.8	23.6	19.2	7.6	0.0	3.8	2
Breitenbush	551	21	9S	7E	2325	Report delayed			14.6	2.8	0.0	1.4	2
SILVER LAKE													
Silver Creek	942	25&26	29S	13E	4900	2-27	22.1	7.8	7.9	3.7	-	3.2	3
CHEWAUCAN RIVER													
Mill Creek	922	1	34S	17E	6200	2-27	28.4	8.6	-	6.4	7.9	6.4	4
HARNEY BASIN													
Deer Creek	973	17	36S	26E	6670	2-27	25.2	8.2	7.5	8.7	8.6	7.8	3
Hart Mountain	971	1	36S	25E	6350	2-28	10.0	4.3	3.0	7.0	5.1	4.4	4
Izee Summit	964	28	16S	29E	5293	3-1	36.3	12.8	13.5	8.8	7.7	8.1	7
Idylwild Camp	961A	33	20S	31E	5200	3-2	28.0	8.5	6.9	7.2	6.3	6.6	7
Starr Ridge	247B	20	15S	31E	5150	3-1	28.8	9.5	9.3	6.2	5.8	5.6	7
Rock Spring	134	23	18S	32E	5100	2-28	29.0	9.8	8.3	8.2	7.3	7.2	7
GUANO LAKE													
Bald Mountain	Nev.	17	45N	21E	6720	No report			-	6.2	5.9	5.0	3
Guano Creek	972	13	36S	25E	6480	2-27	22.0	7.7	5.8	11.1	7.3	8.0	3



TRIBUTARY BASINS		LOCATION		SNOW COVER MEASUREMENTS									
(Primary & Secondary & Snow Courses)	Oregon Number Sec. Twp. Range Elev.	About March 1, 1943		Average Water Depth (Inches)						Yrs. of past rec- ord			
		Avg.	Avg.	One Month Ago (2-1-43)	One Year Ago (3-1-42)	Two Years Ago (3-1-41)	Avg. for						
		Depth (In.)	Depth (In.)										
U M P Q U A R I V E R													
Diamond Lake	743	29	27S	6E	5315	2-27	83.3	32.9	29.8	14.6	12.8	15.8	6
Champion	522	12	23S	1E	4500	3-1	70.5	30.2	30.1	11.7	13.3	17.9	4
Goolaway Mountain	7215	30	32S	3W	3730	2-25	10.3	3.8	7.1	1.1	Trace	3.5	4
Goolaway Gap	726	32	32S	3W	3000	2-25	0.5	0.2	4.8	0.5	0.0	1.5	4
R O G U E R I V E R													
Wagner Butte	7213	1	40S	1W	6900	2-25	40.3	14.7	14.6	16.1	12.4	14.8	5
Seven Lakes No. 1	7211	3	34S	5E	6800	3-1	119.0	46.7	-	-	-	45.2	1
Seven Lakes No. 2	7212	26	33S	5E	6200	3-2	110.2	43.3	-	-	-	38.8	1
Scragg Mountain	7220	9	47N	10W	6200	2-28	58.4	27.0	20.4	21.2	26.4	23.8	2
Annie Spring	831	19	31S	6E	6018	2-24	115.9	46.3	40.8	30.0	39.9	35.4	9
Billie Creek Divide	722	30	36S	5E	6000	2-25	64.5	16.9*	21.3	18.0	13.5	21.3	11
Grayback Peak	727	9	40S	5W	6000	2-27	54.1	23.8	21.9	19.2	-	19.2	1
Hyatt Prairie Reservoir	723	15	39S	3E	4900	2-27	26.9	10.9	11.0	9.2	7.2	10.4	10
Fish Lake	725	3	37S	4E	4865	2-27	39.1	15.3	16.0	9.6	2.8	13.1	8
Siskiyou Summit	728	17	40S	2E	4630	2-28	23.4	8.6	11.8	6.3	Trace	6.4	7
Althouse	7216	17	41S	7W	4400	3-1	3.9	1.1	2.8	4.4	3.7	7.4	4
Goolaway Mountain	7215	30	32S	3W	3730	2-25	10.3	3.8	7.1	1.1	Trace	3.5	4
Silver Burn	7219	30	30S	4E	3720	3-6	39.1	15.6	16.6	8.4	Trace	9.8	6
South Fork Canal	7218	12	33S	3E	3500	3-6	11.4	4.2	7.4	Trace	0.0	4.6	6
Goolaway Gap	726	32	32S	3W	3000	2-25	0.5	0.2	4.8	0.5	0.0	1.5	4
K L A M A T H L A K E B A S I N													
Summer Rim	841	15	33S	16E	7200	2-25	59.5	20.7	-	13.0	13.6	12.7	5
Seven Lakes No. 1	7211	3	34S	5E	6800	3-1	119.0	46.7	-	-	-	45.2	1

* Some question as to water content due to difficulty with weighing scale; now being remeasured.

* Some question as to water content due to difficulty with weighing scale; now being remeasured.



TRIBUTARY BASINS

LOCATION

(Primary & Secondary Oregon
& Snow Courses) Number Sec. Twp. Range Elev.

About March 1, 1943

SNOW COVER MEASUREMENTS

(Inches)

Avg. Snow Depth (In.)
Avg. Water Depth (In.)
One Month Ago (2-1-43)
One Year Ago (3-1-42)
Two Years Ago (3-1-41)
Yrs. of record

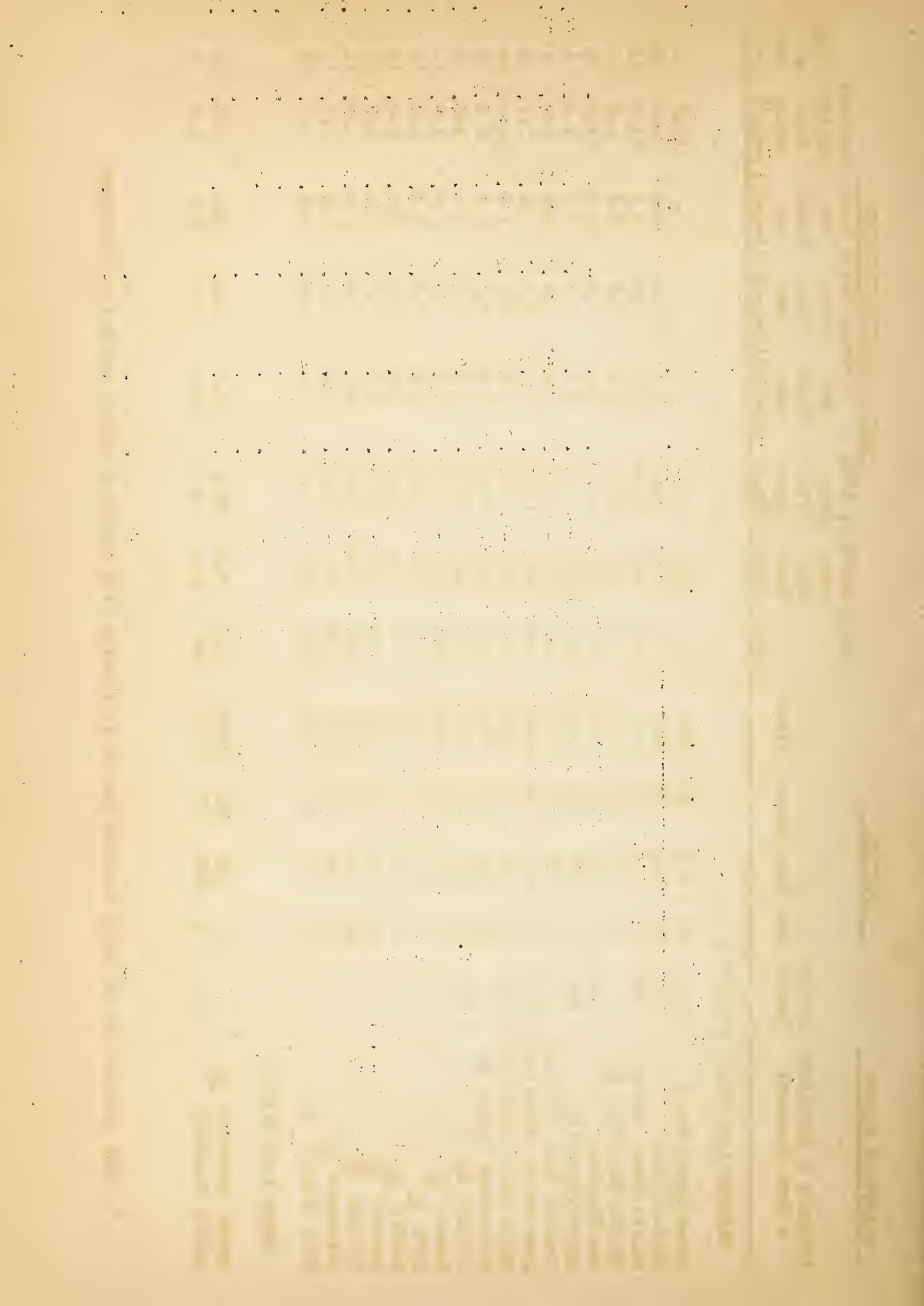
KLAMATH LAKE BASIN (Cont'd.)

Seven Lakes No. 2	7212	26	33S	5E	6200	3-2	110.2	43.3	-	-	-	38.8	1
Annie Spring	831	19	31S	6E	6018	2-24	115.9	46.3	40.8	30.0	39.9	35.4	9
Billie Creek Divide	722	30	36S	5E	6000	2-25	64.5	16.9*	21.3	18.0	13.5	21.3	11
Quartz Mountain 2/		33	37S	16E	5504	2-28	39.0	10.0	9.1	9.0	8.8	6.8	12
Sun Mountain	836	22	32S	7½E	5350	2-27	95.6	37.9	35.2	19.9	26.3	22.9	5
Quartz Mountain	811	2	38S	16E	5320	3-2	24.2	8.1	9.4	7.1	8.2	5.8	4
Crowder Flat (Calif.)		30	47N	11E	5200	2-28	22.1	8.9	7.0	5.3	0.6	2.4	4
Lake of the Woods No.1	835	11	37S	5E	4960	2-28	42.7	13.8	13.2	8.4	5.6	7.7	6
Hyatt Prairie Reservoir	723	15	39S	3E	4900	2-27	26.9	10.9	11.0	9.2	7.2	10.4	10
Richardson Ranch 2/		22	35S	14E	4800	2-15	10.5	3.8	3.2	0.0	0.0	2.0	16
Chemult No. 1	834	21	27S	8E	4760	2-28	56.4	21.4	20.5	10.2	8.4	9.8	6
Yamsey 2/		19	30S	11E	4600	2-28	10.8	7.6	7.8	0.0	0.0	2.0	14
Kirk 2/		1	33S	7E	4533	2-28	31.0	9.1	9.0	7.6	8.8	6.6	15
Beatty 2/		22	36S	12E	4300	2-28	3.0	0.2	2.1	0.0	0.0	0.2	16
Crystal 2/		26	34S	6E	4200	2-28	35.5	10.6	8.2	8.8	8.2	8.4	13
Pelican 2/		10	36S	6E	4200	2-28	24.0	9.0	9.0	3.9	2.5	4.0	16
Chiloquin 2/		34	34S	7E	4187	2-28	9.0	3.8	3.8	0.0	0.0	1.7	13
Fort Klamath 2/		22	33S	7½E	4150	2-28	16.2	6.0	4.4	4.6	0.0	4.4	16

GOOSE LAKE BASIN

Quartz Mountain 2/		33	37S	16E	5504	2-28	39.0	10.0	9.1	9.0	8.8	6.8	12
Quartz Mountain	811	2	38S	16E	5320	3-2	24.2	8.1	9.4	7.1	8.2	5.8	4

* Some question as to water content due to difficulty with weighing scale; now being remeasured.



1/ The following organizations cooperate in the Oregon snow survey work:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

FEDERAL

Department of Agriculture
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
War Department
Army Engineer Corps

PUBLIC UTILITIES

Eastern Oregon Light and Power Company
Portland General Electric Company
The California Oregon Power Company

MUNICIPALITIES

City of Corvallis
City of LaGrande
City of The Dalles

IRRIGATION DISTRICTS

Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users Incorporated
Medford Irrigation District
Ochoco Irrigation District
Rogue River Irrigation District
Talent Irrigation District
Vale-Oregon Irrigation District
Warm Springs Irrigation District

PRIVATE CORPORATIONS

Amalgamated Sugar Company

2/ Water content determined by melting a measured sample.
(The California Oregon Power Company's station.)

